

Combustion and Reacting Systems Branch (RUC)

Combustion science research is aimed at developing technologies and the knowledge-base necessary to ensure fire safety in all mission phases; establishing flammability limits and reaction processes under various extra-terrestrial environments; and combustion based miniature power sources to support human mobility and to apply these results to improve and control a myriad of combustion processes on Earth. Flight hardware is developed for ISS and other space platforms to conduct carefully designed experiments to elucidate the effects of low gravity on combustion and reacting systems.

